

Valid Sudoku (View)

Determine if a 9×9 Sudoku board is valid. Only the filled cells need to be validated **according to the following rules**:

1. Each row must contain the digits 1–9 without repetition.
2. Each column must contain the digits 1–9 without repetition.
3. Each of the nine 3×3 sub-boxes of the grid must contain the digits 1–9 without repetition.

Note:

- A Sudoku board (partially filled) could be valid but is not necessarily solvable.
- Only the filled cells need to be validated according to the mentioned rules.

Example 1:

5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9

Input: board =

```
[["5","3",".",".","7",".",".",".","."],
["6",".",".","1","9","5",".",".","."],
[["9","8",".",".",".",".","6","."],
["8",".",".","6",".",".","3"],
["4",".","8",".","3",".","1"],
["7",".","2",".","","6"],
[["6",".","","2","8","."],
[["4","1","9","","5"],
[["8","","7","9"]]
```

Output: true

Example 2:

Input: board =

```
[["8","3",".",".","7",".",".",".","."],
["6",".",".","1","9","5",".",".","."],
[".","9","8",".",".",".","6","."],
["8",".",".","6",".",".",".","3"],
["4",".",".","8",".","3",".",".","1"],
["7",".",".","2",".",".",".","6"],
[".","6",".",".",".","2","8","."],
[".",".","4","1","9",".",".","5"],
[".",".","8",".",".","7","9"]]
```

Output: false

Explanation: Same as Example 1, except with the 5 in the top left corner being modified to 8. Since there are two 8's in the top left 3x3 sub-box, it is invalid.

Constraints:

- `board.length == 9`
- `board[i].length == 9`
- `board[i][j]` is a digit 1-9 or '.'.